

## SEQUENCE LISTING

JG20 Rec'd PCT/PTO 20 OCT 2005

&lt;110&gt; Agrinomics LLC

&lt;120&gt; GENERATION OF PLANTS WITH ALTERED OIL CONTENT

&lt;130&gt; 6616-72014-06

&lt;150&gt; PCT/US2004/012278

&lt;151&gt; 2004-04-19

&lt;150&gt; 60/464,558

&lt;151&gt; 2003-04-22

&lt;160&gt; 6

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 693

&lt;212&gt; DNA

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 1

```

atgccaaaca ctagcagctc tcaaagcttc actatcttcg ttgatggttg gttaatccgt      60
cacaggtatt tcgttgaaca gcttatgtgt gcttcttcct tggatgaaac taatcgtatc      120
tctctcgaag aacaacaatc tctcgtggcc cagtttctat ctactgtct tcaatactac      180
caagagaaat tcgcctccgt ttccctcgcc ggggacaacg ttttcacttt cttctgccca      240
ccgtgggttta actcctacgc taaacttatt ttatgggtcg gcgatttcaa gccttctctt      300
gtgtttaaac tcaccgaggt ctccgtggcc gacctcacgc gccaccagaa agaccggatc      360
tcgagtctta agtcggagac taggaggaaa gagagagaag ttatgcgaga tttcgccctc      420
gtgcaacaaa gcgtggcgga tccgccggtg atgctcgcgg cgaggcgcggt gggagcggtg      480
ggaatggtgg acggagaaga aacggatttg gaggaggcga tggaggtgct taaagctggg      540
atggcggcag cgatgaacaa cgctgatcag ctacggtggt cgacggtggg gaaagtgggt      600
gagattctta ctccgccgca agcgattaaa gtgttgagga caatcggaca gcttcacctc      660
cgtctgagag acagagacca agaaagagct taa                                     693

```

&lt;210&gt; 2

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 2

Met Pro Asn Thr Ser Ser Ser Gln Ser Phe Thr Ile Phe Val Asp Gly

1	5	10	15												
Trp	Leu	Ile	Arg	His	Arg	Tyr	Phe	Val	Glu	Gln	Leu	Met	Cys	Ala	Ser
			20					25					30		
Ser	Leu	Asp	Glu	Thr	Asn	Arg	Ile	Ser	Leu	Glu	Glu	Gln	Gln	Ser	Leu
		35					40					45			
Val	Ala	Gln	Phe	Leu	Ser	His	Cys	Leu	Gln	Tyr	Tyr	Gln	Glu	Lys	Phe
	50					55					60				
Ala	Ser	Val	Ser	Leu	Ala	Gly	Asp	Asn	Val	Phe	Thr	Phe	Phe	Cys	Pro
65					70					75					80
Pro	Trp	Phe	Asn	Ser	Tyr	Ala	Lys	Leu	Ile	Leu	Trp	Val	Gly	Asp	Phe
				85					90					95	
Lys	Pro	Ser	Leu	Val	Phe	Lys	Leu	Thr	Glu	Val	Ser	Val	Ala	Asp	Leu
			100					105					110		
Thr	Arg	His	Gln	Lys	Asp	Arg	Ile	Ser	Ser	Leu	Lys	Ser	Glu	Thr	Arg
		115					120					125			
Arg	Lys	Glu	Arg	Glu	Val	Met	Arg	Asp	Phe	Ala	Leu	Val	Gln	Gln	Ser
	130					135					140				
Val	Ala	Asp	Pro	Pro	Val	Met	Leu	Ala	Ala	Arg	Arg	Val	Gly	Ala	Val
145					150					155					160
Gly	Met	Val	Asp	Gly	Glu	Glu	Thr	Asp	Leu	Glu	Glu	Ala	Met	Glu	Val
				165					170					175	
Leu	Lys	Ala	Gly	Met	Ala	Ala	Ala	Met	Asn	Asn	Ala	Asp	Gln	Leu	Arg
			180					185					190		
Cys	Ser	Thr	Val	Gly	Lys	Val	Val	Glu	Ile	Leu	Thr	Pro	Pro	Gln	Ala
		195					200					205			
Ile	Lys	Val	Leu	Arg	Thr	Ile	Gly	Gln	Leu	His	Leu	Arg	Leu	Arg	Asp
	210					215					220				
Arg	Asp	Gln	Glu	Arg	Ala										
225					230										

<210> 3  
 <211> 1163  
 <212> DNA  
 <213> Arabidopsis thaliana

<400> 3  
 gagaactggg gagagtcagc tatggctggg agccctatga ctgacacatc tacagatcca 60  
 gacactgatg agaggaacca gatgtttgaa caaggacttg ttgctgtccc cacagcttct 120  
 gattctagtg acaaatcaag ggacaaacta gatcagaaga cacttcggcg tcttgcccaa 180  
 aatcgtgaag ctgcccggaa aagccgttta cgaaagaagg catacatcca aaaccttgag 240  
 agtagcagat tgaaacttac tcagttagag caagagcttc accagactcg tcaacagggt 300  
 atttttatct ctacatcagg agatcaacct caatcaacaa gcggaaatgg agctttggca 360  
 tttgacatgg agtatgcacg ctgggttgaa gagcacaaca aacatgtaaa tgagttgagg 420  
 cttgcagtca atgcacatgc cggtgataat gatctccgtg gtattgttgg tagtgttatg 480  
 gcacactacg atgaattttt caggctcaag ggtgtggcag ctagatcaga tgtttttcat 540  
 gtgctgtctg ggatgtggaa gacccctgct gagagatggt tcatgtggtt aggtggcttc 600  
 cgatcatctg aggttcttaa gttactggca ggtcacctag agcctcttac tgatcagcag 660  
 cttgttggtg tatccaacct gcagcagtc tcccaacaag ctgaagatgc tcttttctca 720  
 gggatggaag cattacaaca gtcgcttgca gaaactctag catctggatc cctgggcccct 780  
 gctggacctt ctggcaatgt tgcaaattac atgggacaaa tggcgatggc tatgggaaaa 840  
 cttggcacc tagagaactt tctacgacag gctgataatc tacggctgca aacacttcaa 900  
 caaatgcaac gcatcttaac caccgacaa tccgcacgag ccctacttgc aataagcgac 960  
 tacttctctc ggctgcgtgc tttgagttct ctttggcttg cccgtccaag ggaataaatt 1020  
 caattaactc ataaatagga ttttttttgt actgtctcta gtatgtcaat tagtttcttc 1080  
 acattgctca tgtgttgatg ggatatttgg atctaagatc ttatgaatgg atgacatgta 1140  
 tgtgttcaag tgaaaaaaaa aaa 1163

<210> 4  
 <211> 1024  
 <212> DNA  
 <213> Arabidopsis thaliana

<220>  
 <221> misc\_feature

<222> (416)..(417)

<223> n is a, c, g, or t

<400> 4

tggaagaac ctttttttgg gttgggggggt tcaaacctgg aatggccttt caggttgtga	60
acgcagcttt ggaggttttg tcagaacagc aaaaggagag gctgagtttg ctcaaccaag	120
agaccaaggt gaaggagaga gccctcaatg atgagttggc caagcttcat gagagtgtgg	180
cagctccacc gctggtggac atggccagga gccatggtag ggtgtgtttc agtaggtcct	240
tcatggcaga tgggggttct tccgttccaa gcactttcag atagacattg gagaatctgg	300
aggcaaatgc agatgctttg aggacaaaca catctttgaa gattctccag atactgagac	360
cttctcagct tgtttcattc ttggctgctg tggctgagct tcagatcagg attggnnctt	420
ggggtttggg caaggatgcc ctgaatggag gccaagggtg aaagtcaatt aacgggaatt	480
tgaaggcttt tttatgtaag ttgctttcag tttttgtctt ttttgggaac tggtttgagt	540
tggaggatgg atacataggc atttagcctt ttagcatcat gatgatggat ggtgtgcatt	600
gggcagtgag catgttcact gcctgtaatg ttgtttctct ctacctggtt tgggtgggcat	660
tgaacaatga tgaacaaaac aaggccatgc aatgcatact tttatctaga ggctaaaagc	720
atcaatatat ttgtacctct tgagatagag gcaagtactc caggttctct ctactcaagc	780
agctacccca gatttcaatt ggttgctata tttaccatag taagtaggta gtagatacct	840
aaggattatt tatttttctt ttttttgtga tattaagaca tgttttctaa tttctagtga	900
agaacttgga tggatgtata ggatgtggta ccttgaaaat tacttttcaa cgtcccactc	960
actttgacat tgcacaaag taagtttctc cctaaggggt ctttttggtc ctttcctcaa	1020
caca	1024

<210> 5

<211> 1234

<212> DNA

<213> Arabidopsis thaliana

<400> 5

ggcgcatgct gcagggtgcaa ctgagcaatt gcagacctgg gagttgcttc cattatcttg	60
cacacactac taggtggcta gccatcgagc acaatcatgt ccaagctggc aagtagtgct	120
tcataccttg tctccacctc gccaaacggt tctccttccc gtgaaacggt tcgcaaattc	180
ttcgagtgct ggcttggaga gcaaaacaat tatctcgaac aactcatctc aacctgtaaa	240
gattatgatc acaacagaaa aaactcccc cagtcactc aggcaaccct ccagcctctt	300

atcaaccgtg ttcttgagca ttatgaacat tattatagat ccaagtcaag atgggccaaa	360
gatgatgtgt tatccatgct ctctccttca tggaccagca ctctcgagca tgcttttctt	420
tggatcgggtg ggtggcggcc ctctgtggct tttcacttgc tctactcaaa gtcagggtcat	480
cagtttgagg ctcaactcca tgagttgatt tgtgggttgg ggacagggtga cttgggtgac	540
ctttcagcta gtcaactcac ccgagttgat cagttacaga ggaagactgt caggggaagag	600
aacgagctga ctgagaagct tgcaaagcaa caagaaactg tagcagactc gtctatgggtg	660
gagttagcac atgaggtgac tgagttgttg aggagcgaga acacgggtga tgaagtggag	720
gaagagcgag ttgagtcaac tctggcacct aaaaaggatg gattgcagga aatcttgcag	780
atggctgatg atctacggct gagaactatc aaaggtgtta tcgagatttt gactccaatc	840
caagccgttc atttcttgat tgcagctgct gagttgcact tgcgccttca tgactggggc	900
aagaaggggtg attgggcacg ccgcgtccac cactgatatg cgatttatta ggggataatc	960
atccatgaat tacacccata ttcgctgttc tgttgacata attaagaaat ggggagactg	1020
attttggttt tagaggcagg ataagcaaga tacgcagtaa tgtttaatta tattttcaga	1080
ttgaatctat ctatgtttac tatgtattat ccatcagggtg ctttgagtcc tcaagcactg	1140
gcatttttagt ttaatatatg tattatgtat gatgttgcca gttaatttct ccaacttggc	1200
tttggctata attgaagtat tttgaaagat tgaa	1234

<210> 6  
 <211> 1083  
 <212> DNA  
 <213> Arabidopsis thaliana

<400> 6	
gatagtctct atttatattg tagatatata aaccaactct ccatgatgag tactagcaaa	60
aatgggctag aaaatggcaa atcattccac aagttttttt gaatcatggc tcgttaaaca	120
aatcaagat ttggatcagc ttgtacgtgc ctcaaaagac gacgacaaca acaacaagaa	180
caacaatgac atgatgttgt catctttaat tcatagtgtg gtgaaacatt atgaagaata	240
ttatagagag aatcacgat acgctattag tgatatttta ggcatgttgc acccctcatg	300
gttaagtaat cttgaagatg catttttatg gattgggtgga tggagaccta gtatggcttt	360
tcatttgtta tactcaaaat caggtataca acttgaagct aatcttcatg agttaattag	420
aggatttaac acaaaagatt taggaaattt aagtggtaat caacttgtat taattgatga	480
gttacaacat aagacaataa gtgaagaaag aaagctaagt gaaaatttag ctaaagttca	540

agaaacttta gctgatgcat caatgggttga attatcacat gttgtgagtg aattaatgag	600
ggatgatcaa ttagttgtta atgatgaaga ggaaaaaatt aagaaaaata ttagtaaaaa	660
agaggaaagt ttattggatt tgttgaaaaa agctgatgat ttaagggttaa gtacaattaa	720
agagattttg agaattttga catcaacaca aggtgttcat ttcttgattg ctgctgctga	780
acttcatttg aggattcatg aatggggtaa gaagaaagat gctgctgttt ctcatcataa	840
atggtcatgt caaacaataa acgacgagcc aaattctgag gggacgtctg tcagaaatta	900
gtcattcaga tctattagaa tgatacagag aagatcaacg tgg tacttaa tagttatgaa	960
tattcttaat tactacttaa ggagctagcc aaatggtatt agtattaatt actaggtaga	1020
ttgtaatagg ataaagttct tttaagggtc tttttttttg tttcattttt gtttatgtag	1080
tga	1083